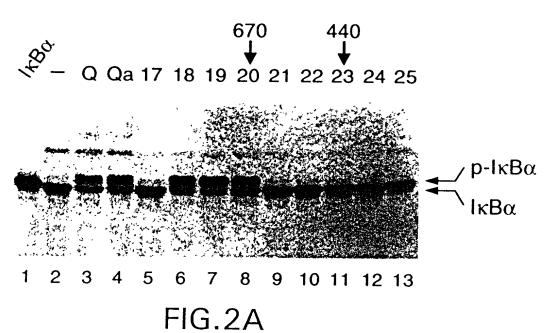
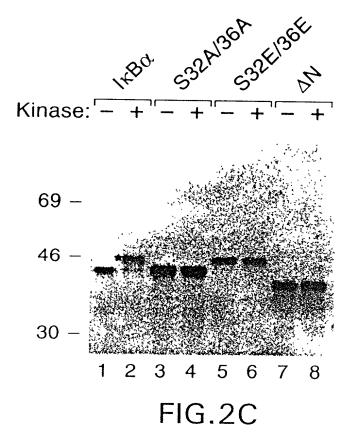
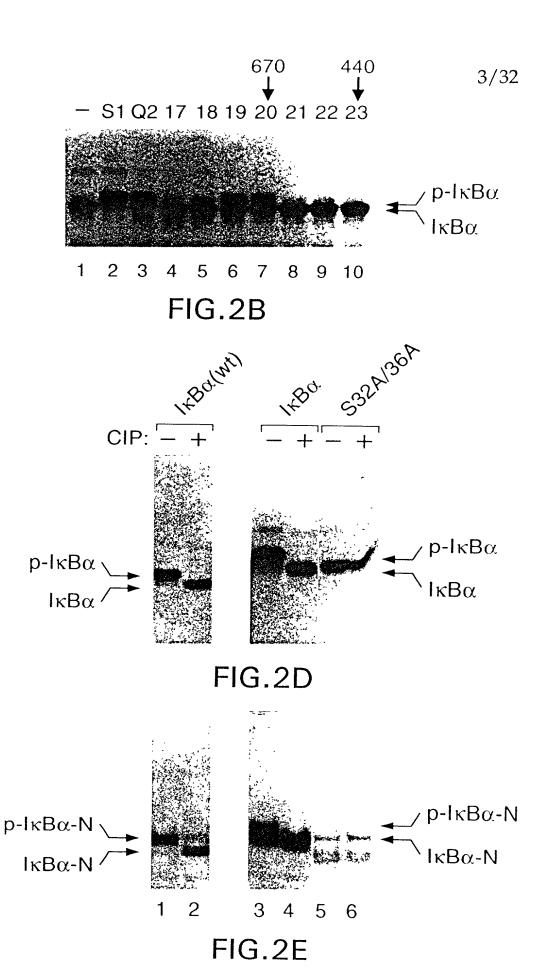
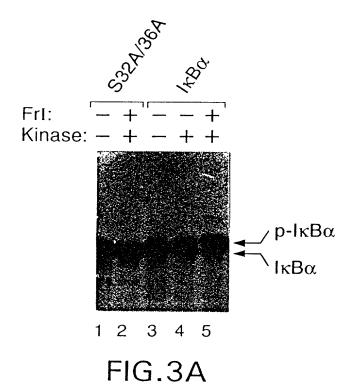
Ubc4: FrI: FrII: 200 97  $[\mathsf{Ub}]_n\text{-}\mathsf{I}\kappa\mathsf{B}\alpha$ 69 46 ΙκΒα 30 2 3 5 6 FIG.1





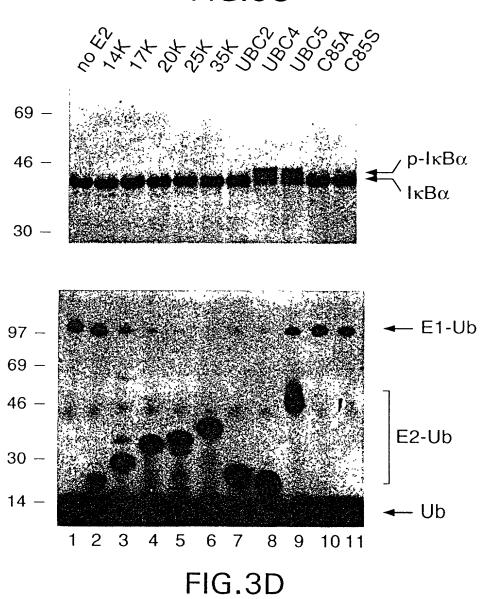




1 2 3 4

FIG.3B

FIG.3C

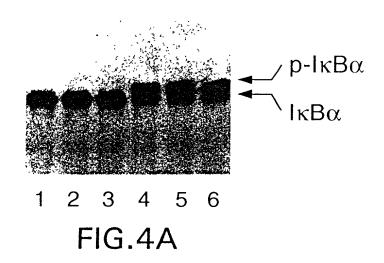


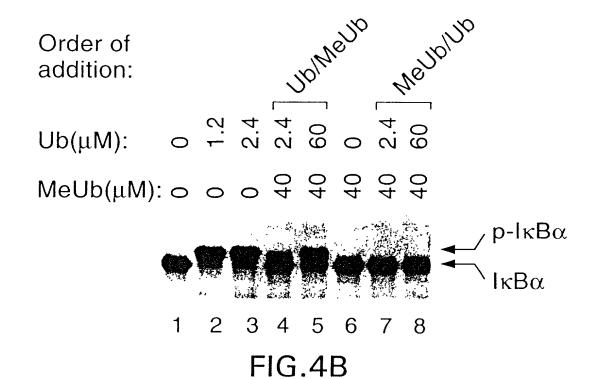
## 

1 2 3 FIG.3E

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Ub(μM): 0 0.000 × 3 0





Kinase: 
$$-+++$$
Rel A:  $++-+$ 
OA:  $+++-$ 

$$-\frac{p-l\kappa B\alpha}{l\kappa B\alpha}$$
1 2 3 4
FIG.5B

Preincubation: no preinc. — Ub + Ub
Time (min.): 0 3 6 10 20 3 6 10 20 3 6 10 20

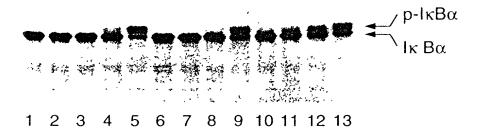


FIG.6A

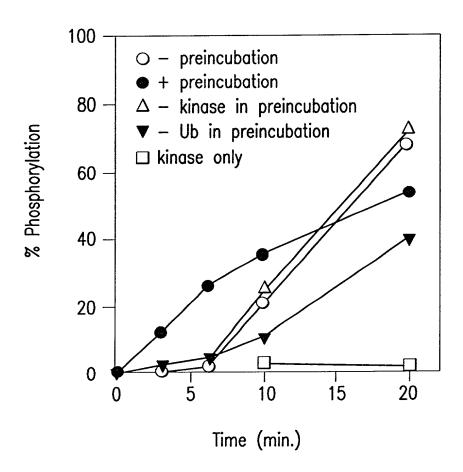
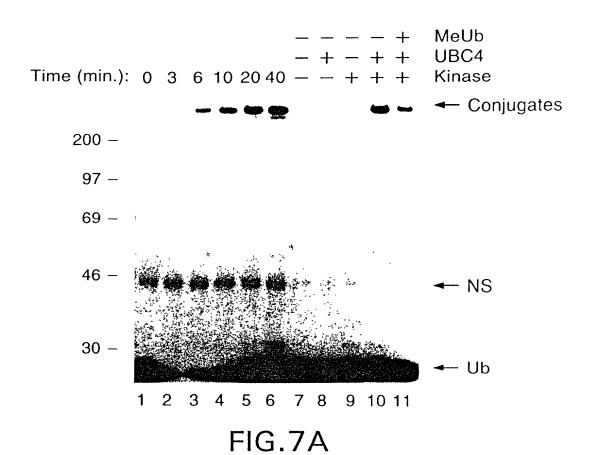


FIG. 6B



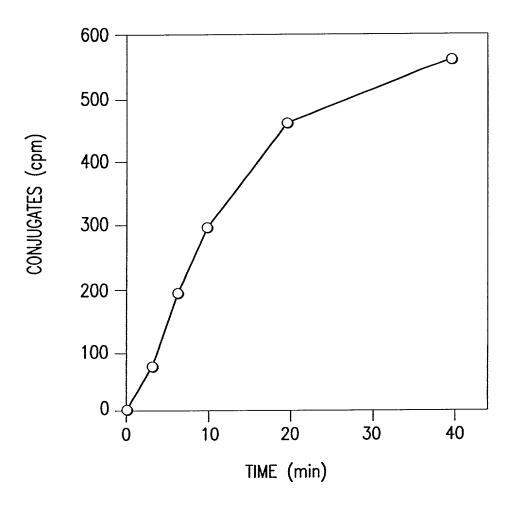


FIG. 7B

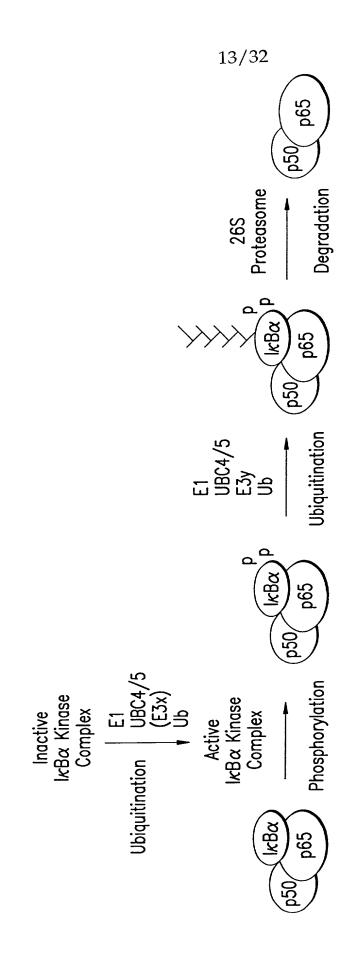
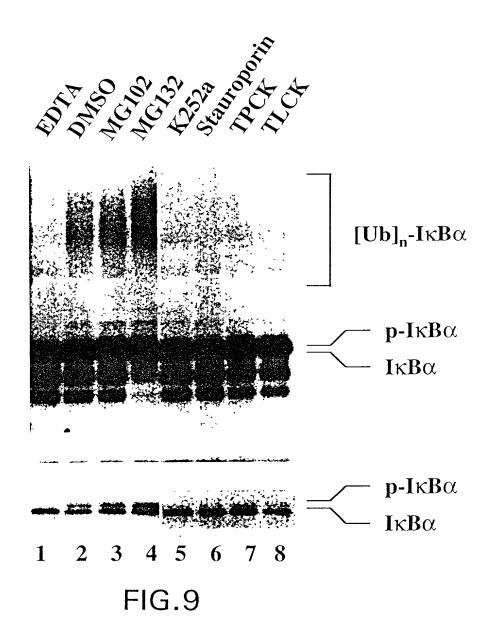
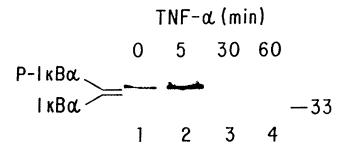
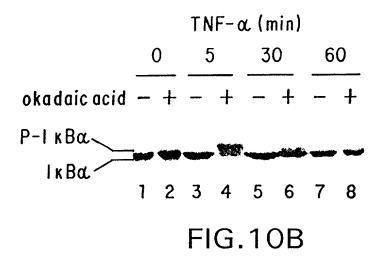


FIG. 8



## FIG.10A





## FIG.10C

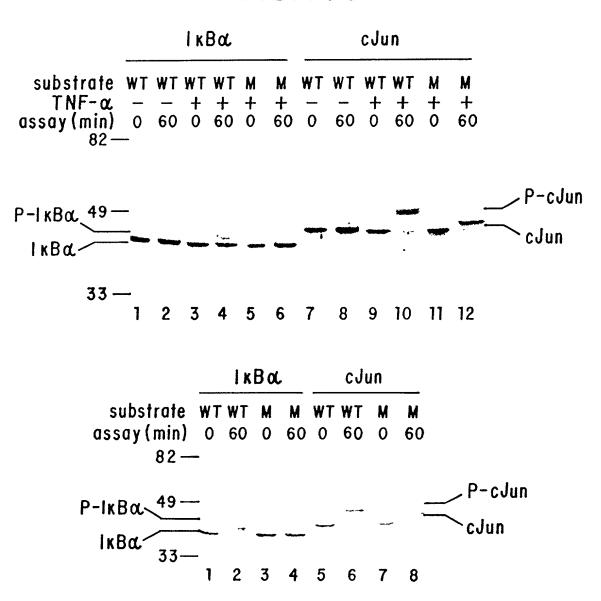
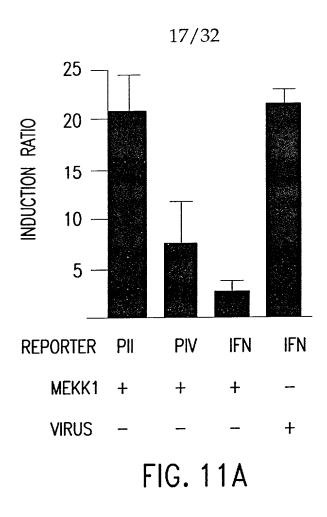


FIG.10D



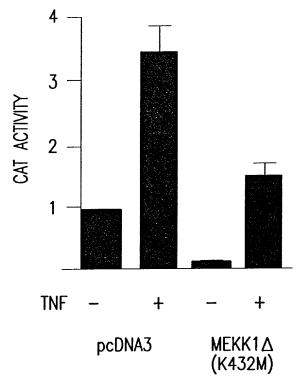


FIG. 11B

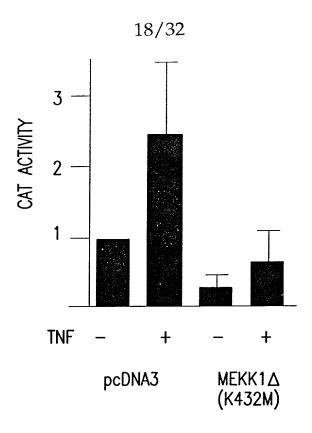


FIG. 11C

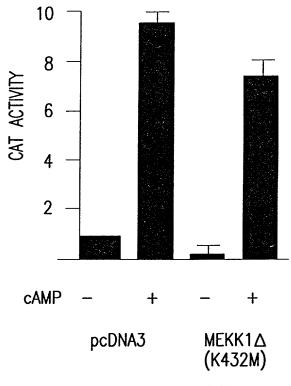


FIG. 11D

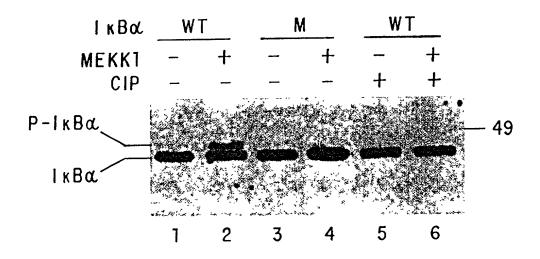
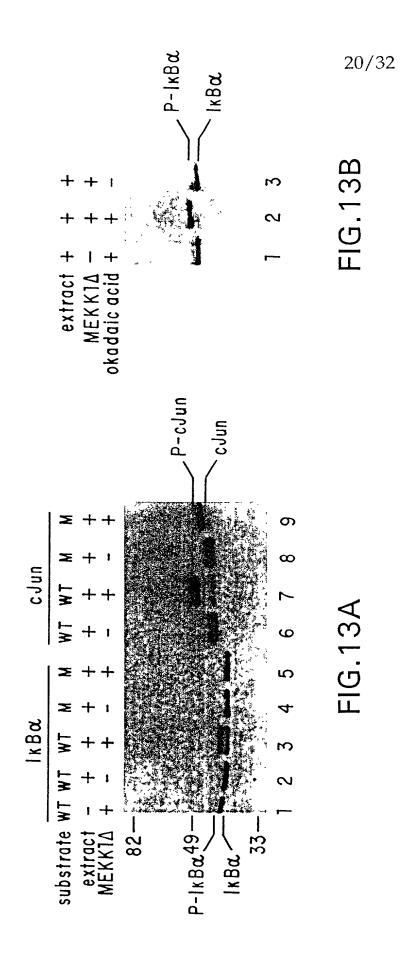
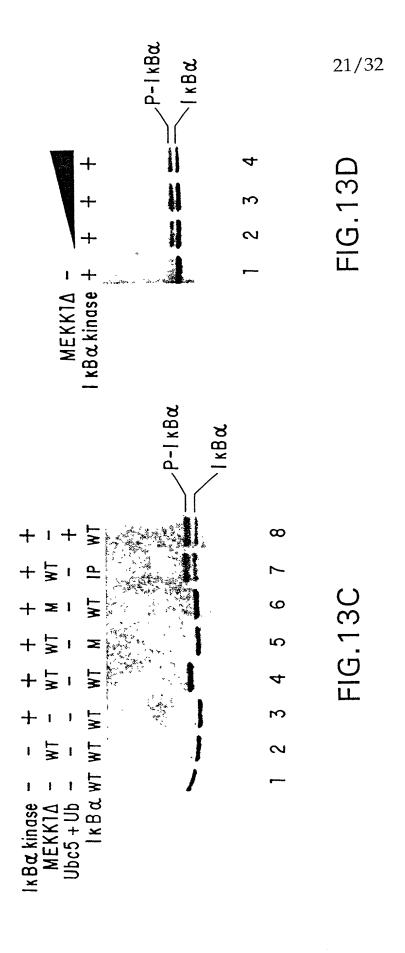


FIG.12





fraction 25 27 29 30 31 32 33 34 35 36 38 40 42 FIG.14C P-I κBα I KBa 670 440 traction 17 18 19 20 21 22 24 26 FIG.14A P-I KBa I κBα

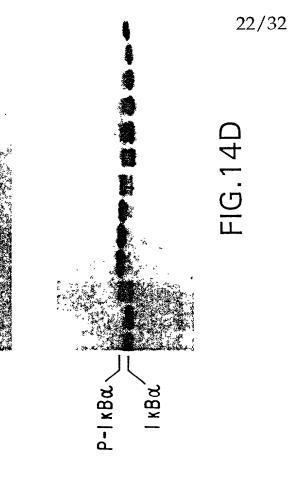
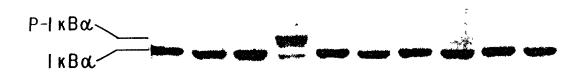


FIG.14B

P-I KBa

I KBa



1 2 3 4 5 6 7 8 9 10

FIG.15A

$$CIP - - + +$$
 $MEKK1\Delta + - + -$ 

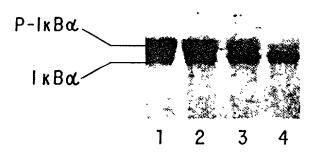
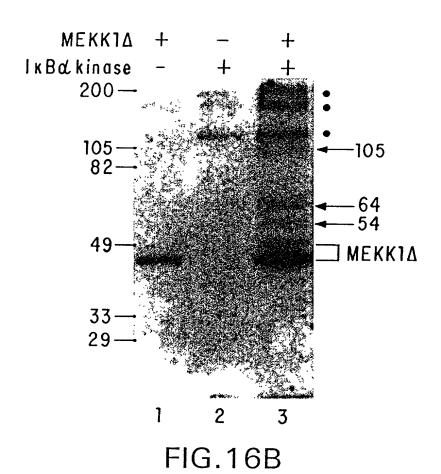


FIG.16A



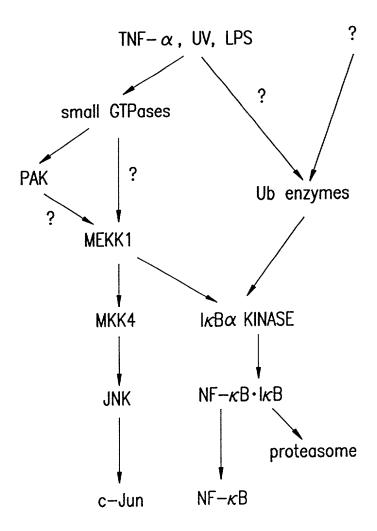


FIG. 17

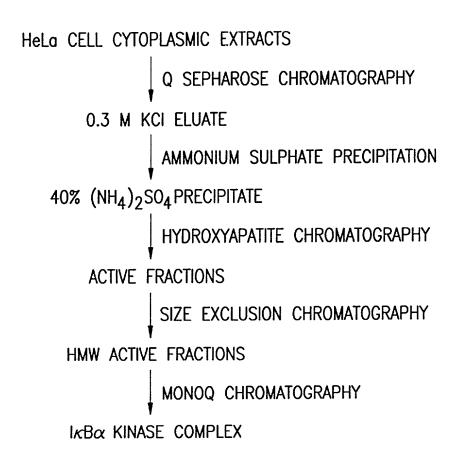


FIG. 18

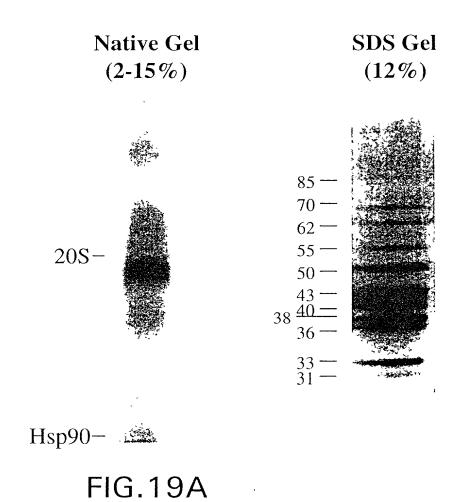


FIG.19B

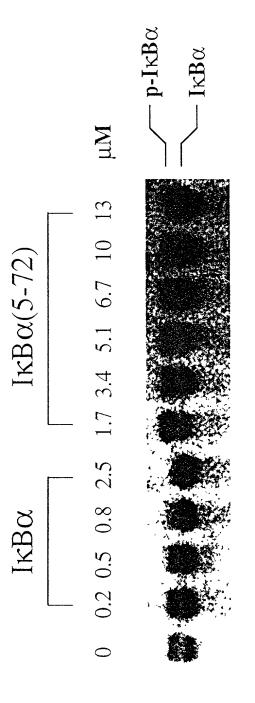


FIG.20

A B	p50:	pep1: [L/I] [Y] [V] [E] [L/I] [E] [R] pep2: [L/I] [Q/K] [E] [V] [L/I] [E] [T] [L/I] [L/I] [S]
С		[L/I] [E] [K*] pep3: [L/I] [F] [T] [M] [E] [L/I] [M] [R]
D	p40:	pep4: [T] [Y] [H] [A] [L*] [S] [N] [L*] [P] [K*]

FIG.21

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```
1 gggtgacgag tggtggccga agcaggggga cagcaaggga cgctcaggcg gggaccatgg
61 cggacggcgg ctcggagcgg gctgacgggc gcatcgtcaa gatggaggtg gactacagcg
121 ccacggtgga tcagcgccta cccgagtgtg cgaagtatgc caaggaagga agacttcaag
181 aagtcattga aacccttctc tctctggaaa agcagactcg tactgcttcc gatatggtat
241 cgacatcccg tatcttagtt gcagtagtga agntgtgcta tgaggctaaa gaatgggatt
301 tacttaatta aaaatattat tgctttttgt ccaaaaggcg gagtcaagtt aaaaacaagc
361 tagttgacaa aaaatggatt naacagttgc tgtnacttat tgttt
```

```
1 ataccaagag gtaccaggaa gcattgcatt tgggttctca gctgctgcgg gagttgaaaa 61 agatggacga caaagctctt ttggtggaag tacagctttt agaaagcaaa acataccatg 121 ccctgagcaa cctgccgaaa gcccgagctg ccttaacttc ttctcgaacc acagcaaatg 181 ccatctactg ccccctaaat tgcaggccac cttggacatg cagtcgggta ttatccatgc 241 agcagaagag aaggcttgaa actcgtactc atacttctat gaggcattta gggtatgact 301 catcgacagc ccaaggcatc aca
```

**FIG.22** 

